

Wednesday, 17th June

Carrying on from yesterday, we are going to solve different problems to do with ordering fractions

Please look at lesson from yesterday as a reminder of key vocabulary and how to order fractions.

If I am comparing fractions, I need to find the common denominator.

Please read this! The / is a symbol that means the same as ÷

True or false?

$\frac{4}{5}$ is $>$ $\frac{3}{4}$

Steps to proving statement:

- Find the common denominator
- Counting up in 4's and 5's the lowest common denominator is 20
- Convert both fractions

$$\frac{4}{5} \times 4 = \frac{16}{20}$$

$$\frac{3}{4} \times 5 = \frac{15}{20}$$

- $\frac{16}{20}$ is $>$ $\frac{15}{20}$ so the statement is true

Let's try a problem with mixed numbers. A mixed number is a whole number and a fraction eg

$3 \frac{1}{2}$

To convert $3 \frac{1}{2}$ to a proper fraction

- Multiply the denominator by the whole number $3 \times 2 = 6$
- Add your answer to the numerator $6 + 1 = 7$
- The denominator stays the same

The proper fraction is $\frac{7}{2}$

Real life problem

Mr Rist jogs $4 \frac{2}{7}$ km, Mr Wallis jogs $\frac{29}{7}$ km and Mr Malcom jogs $\frac{69}{21}$ km

Who jogs :

- The greatest distance
- The smallest distance

Steps to solving problem:

- Find the common denominator which is 21
- Convert the fractions so the denominator for each fraction which is 21

$$4\frac{2}{7} = \frac{30}{7} = \frac{90}{21}$$

$$\frac{29}{7} = \frac{87}{21}$$

$$\frac{69}{21}$$

Now you can see that Mr Rist jogs the greatest distance (of course!) and Mr Malcom jogs the smallest distance

Have a go at these tasks below. Good luck!